**Unit 12 Map (Gene Regulation and Biotechnology)**

Ms. Ottolini, AP Biology

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| **Topic** | **Learning Target** | **DBA Score** (%) | **Test Score** (%) |
| 1. Gene Regulation | A. I can identify the purpose of gene regulation in prokaryotic and eukaryotic cells. |  |  |
| B. I can explain how inducible and repressible operons are regulated in prokaryotic cells. |
| C. I can compare / contrast the different levels of gene regulation in eukaryotic cells. |
| 2. Biotechnology A | D. I can describe the purpose and methods of gel electrophoresis and analyze electrophoresis results. |  |  |
| E. I can describe the purpose and methods of polymerase chain reaction (PCR). |
| 3. Biotechnology B | F. I can describe the purpose and methods of bacterial transformation and analyze bacterial transformation results. |  |  |
| G. I can provide examples of the practical uses of biotechnology, including insulin production and cloning. |